

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.3749
TO BE ANSWERED ON 03.01.2019**

CONSERVATION OF ELECTRICITY

3749. SHRI DEVUSINH CHAUHAN:

**Will the Minister of POWER
be pleased to state:**

(a) the trend of power consumed in the domestic and industrial sector witnessed during the last three years along with the schemes under implementation for Demand Side Management including saving/conservation of electricity, if so, the details thereof;

(b) whether the Government is aware that a significant amount of electricity is being wasted in the domestic sector on account of faulty appliances, leakages and usage of energy inefficient electric devices, if so, the details thereof along with the corrective action taken thereon;

(c) whether any target was fixed for promoting energy efficient appliances and gadgets, conservation and saving of electricity during the last three years; and

(d) if so, the details thereof along with the action taken in this regard and the achievements made as a result thereof?

A N S W E R

**THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER
AND NEW & RENEWABLE ENERGY**

(SHRI R. K. SINGH)

(a): The major demand side management schemes/programmes under implementation are (i) Standards & Labeling Programme, (ii) Perform, Achieve and Trade Scheme, (iii) National Energy Conservation Awards, (iv) Energy Efficiency in Small and Medium Enterprises and (v) National LED programme launched by Hon'ble Prime Minister in January 2015 comprising (a) Unnat Jyoti by Affordable LEDs for All (UJALA) to provide LED bulbs to domestic consumers; and (b) Street Lighting National Programme (SLNP). The trend of power consumed in the domestic and industrial sector witnessed during the last three years as per data made available by Central Electricity Authority (CEA) including energy savings due to implementation of Demand Side Management schemes/programmes mentioned at (i) to (iv) above is given at Annexure-I.

As regards the programme mentioned at (v) above, Energy Efficiency Services Limited (EESL), a joint venture company of Public Sector Undertakings (PSUs) under the Ministry of Power, which is the implementation agency of the programme, has, till date, distributed over 31.77 crore LED bulbs and installed over 76.77 lakh LED street lights in the country. This has resulted in estimated energy savings of 46.42 billion kWh per year with avoided peak demand of 9,111 MW.

(b) : Government is aware of the electricity wastage in the domestic sector on account of inefficiencies of electrical appliances and equipment. Accordingly, Ministry of Power, Government of India, through Bureau of Energy Efficiency (BEE), is implementing Standards and Labelling programme (S&L) with the following objectives:-

- (i) Creating awareness among the consumers on cost and energy savings resulting from use of energy efficient appliances to enable them to make informed decisions at the time of purchase;**
- (ii) Transforming the appliance/equipment market towards energy efficiency through Star Labelling of appliances/equipment on a scale of 1 to 5 stars based on its annual energy performance, 5 star rated appliance/equipment being the most efficient ones;**

At present, 22 appliances are covered under S&L Programme, out of which 10 are in mandatory category and 12 in voluntary category, as under:-

Appliances covered under mandatory category	Appliances covered under voluntary category
1. Frost Free Refrigerator	1. Induction Motors
2. Tubular Fluorescent lamp	2. Agricultural Pump sets
3. Room Air Conditioners	3. LPG stoves
4. Room Air Conditioner (Cassette, Floor Standing Tower, Ceiling, Corner AC)	4. Computers (Notebooks/Laptops)
5. Color Television	5. Office Equipment (printers, copier, and scanner)
6. Direct Cool Refrigerator	6. Ceiling Fans
7. Inverter AC	7. Diesel Engine Driven Monoset Pumps for Agricultural Purposes
8. LED lamps	8. Solid State Inverter
9. Distribution Transformers	9. Generator
10. Electric Water Heaters	10. Ballast (Electronic/Magnetic)
	11. Washing Machine
	12. Chillers

(c) & (d) : Under the S&L programme, during the last three years, the Government has introduced four appliances under voluntary category and brought six appliances from voluntary to mandatory category. The targets fixed for promoting energy efficient appliances and gadgets, conservation and saving of electricity during the last three years and the achievements are at Annexure-II.

ANNEXURE-I**ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 3749 TO BE ANSWERED IN THE LOK SABHA ON 03.01.2019.**

Electricity Consumption in India during 2014-15, 2015-16 & 2016-17 (Million Unit)				
Financial Year	Domestic	% Growth	Industrial	% Growth
2014-15	217404.72	8.79	418346.16	8.83
2015-16	238875.69	9.88	423522.94	1.24
2016-17	255826.01	7.10	440205.52	3.94

Energy savings (both thermal energy and electricity) due to implementation of Demand Side Management schemes (Million units)			
Schemes	2014-15	2015-16	2016-17
Standards & Labeling Programme	33765.17	36899.74	41422.76
Perform, Achieve & Trade Scheme	101050.57	101050.57	101050.57
National Energy Conservation Awards	5197	2598	7378
Small & Medium Enterprises	12.70	72.10	72.10
Total	140025.4	140620.4	149923.4

ANNEXURE-II**ANNEXURE REFERRED TO IN REPLY TO PARTS (c) & (d) OF UNSTARRED QUESTION NO. 3749 TO BE ANSWERED IN THE LOK SABHA ON 03.01.2019.**

1. Energy saving targets and achievements under Standards & Labeling Scheme for Appliances:

XII Plan saving targets and achievements from appliance and equipment under Standards & Labeling scheme (in Billion Units)			
Sl. No	Year	Targets	Achievements
1	2014-15	11.08	33.765
2	2015-16	11.97	36.899
3	2016-17	13.01	41.422

2. Action taken by Government towards energy savings in Appliances

Launch of Voluntary Performance Standards in last 3 years		
Sl. No	Appliance Name	Year of voluntary launch
1	Variable Capacity Inverter Air Conditioners	2015
2	LED Lamps	2015
3	Solid State Inverter	2016
4	Chillers	2018

Voluntary to Mandatory transition of Performance Standards in last 3 years		
Sl. No	Appliance Name	Year of Mandatory transition
1	Cassette Air Conditioner	2015
2	Direct Cool Refrigerator	2016
3	Color Television	2016
4	Electric Water Heater (Geyser)	2016
5	Variable Capacity Inverter Air Conditioners	2018
6	LED Lamps	2018
